

IN THE CLAIMS:

1. (currently amended) For use in communicating data over a voice channel between a transmitter of a base station and a receiver of a handset of a cordless telephone, a system comprising:

a silence detector, coupled to said transmitter, that identifies a pause in voice traffic that is to be transmitted over said voice channel and generates an interjection signal during said pause; and

a data injector, coupled to said silence detector, that receives said interjection signal and responds by causing said transmitter to transmit data to said receiver over said voice channel; ~~wherein said transmitter is associated with a base station of a cordless telephone and said receiver is associated with a handset of said cordless telephone.~~

2. (original) The system as recited in Claim 1 wherein said voice traffic is analog voice traffic.

3. (canceled)

4. (original) The system as recited in Claim 1 wherein said data comprises caller identification data.

5. (original) The system as recited in Claim 1 wherein said data comprises menu item selection data.

6. (original) The system as recited in Claim 1 wherein said transmitter transmits said voice traffic in frames.

7. (original) The system as recited in Claim 1 wherein said silence detector identifies said pause by comparing a peak energy of said voice traffic to a noise floor reference.

8. (currently amended) A method of communicating data over a voice channel between a transmitter of a base station and a receiver of a handset of a cordless telephone, comprising:

identifying a pause in voice traffic that is to be transmitted over said voice channel; and
responding to said pause by causing said transmitter to transmit data to said receiver over
said voice channel, wherein said transmitter is associated with a base station of a cordless telephone
and said receiver is associated with a handset of said cordless telephone.

9. (original) The method as recited in Claim 8 wherein said voice traffic is analog voice
traffic.

10. (canceled)

11. (original) The method as recited in Claim 8 wherein said data comprises caller
identification data.

12. (original) The method as recited in Claim 8 wherein said data comprises menu item
selection data.

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13. (original) The method as recited in Claim 8 wherein said transmitter transmits said voice
traffic in frames.

14. (original) The method as recited in Claim 8 wherein said identifying comprises
comparing a peak energy of said voice traffic to a noise floor reference.

15. (original) A cordless telephone, comprising:
a base station transceiver;
a handset transceiver, said base station and handset transceivers cooperable to establish a
voice channel therebetween;
a silence detector, coupled to said base station transceiver, that identifies a pause in voice
traffic that is to be transmitted over said voice channel and generates an interjection signal during
said pause; and

a data injector, coupled to said silence detector, that receives said interjection signal and responds by causing said base station transceiver to transmit data to said receiver over said voice channel.

16. (original) The cordless telephone as recited in Claim 15 wherein said voice traffic is analog voice traffic.

17. (original) The cordless telephone as recited in Claim 15 wherein said data comprises caller identification data.

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18. (original) The cordless telephone as recited in Claim 15 wherein said data comprises menu item selection data.

19. (original) The cordless telephone as recited in Claim 15 wherein said base station transceiver transmits said voice traffic in frames.

20. (original) The cordless telephone as recited in Claim 15 wherein said silence detector identifies said pause by comparing a peak energy of said voice traffic to a noise floor reference.
